XOR using perception algorithm (A XOR B)

We already know how we can implement AND & OR using perception.

For AND, we can have $w_1 = w_2 = 1$

$b = -1.5$

For OR, we can have $w_1 = w_2 = 1$

$b = -0.5$

Now we define NOT as well, as we could require that for XOR. We just have one input here. Therefore, just one weight

$w = -1$ & $b = 0.5$

A XOR B can be defined as $A \oplus B = (A + B) \cdot (\bar{A} + \bar{B})$

We can use this equation & the above mentioned weights to evaluate XOR.